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VALVE ARRANGEMENT TO MODIFY THE DYNAMIC CHARACTERISTICS OF INTERCONNECTED HYDRAULIC VEHICLE SUSPENSION SYSTEMS

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(71) Applicant(s)
 KINETIC LIMITED

(72) Inventor(s)
 NAME NOT GIVEN

(74) Attorney or Agent
 WATERMARK PATENT & TRADEMARK ATTORNEYS, Locked Bag 5, HAWTHORN VIC 3122

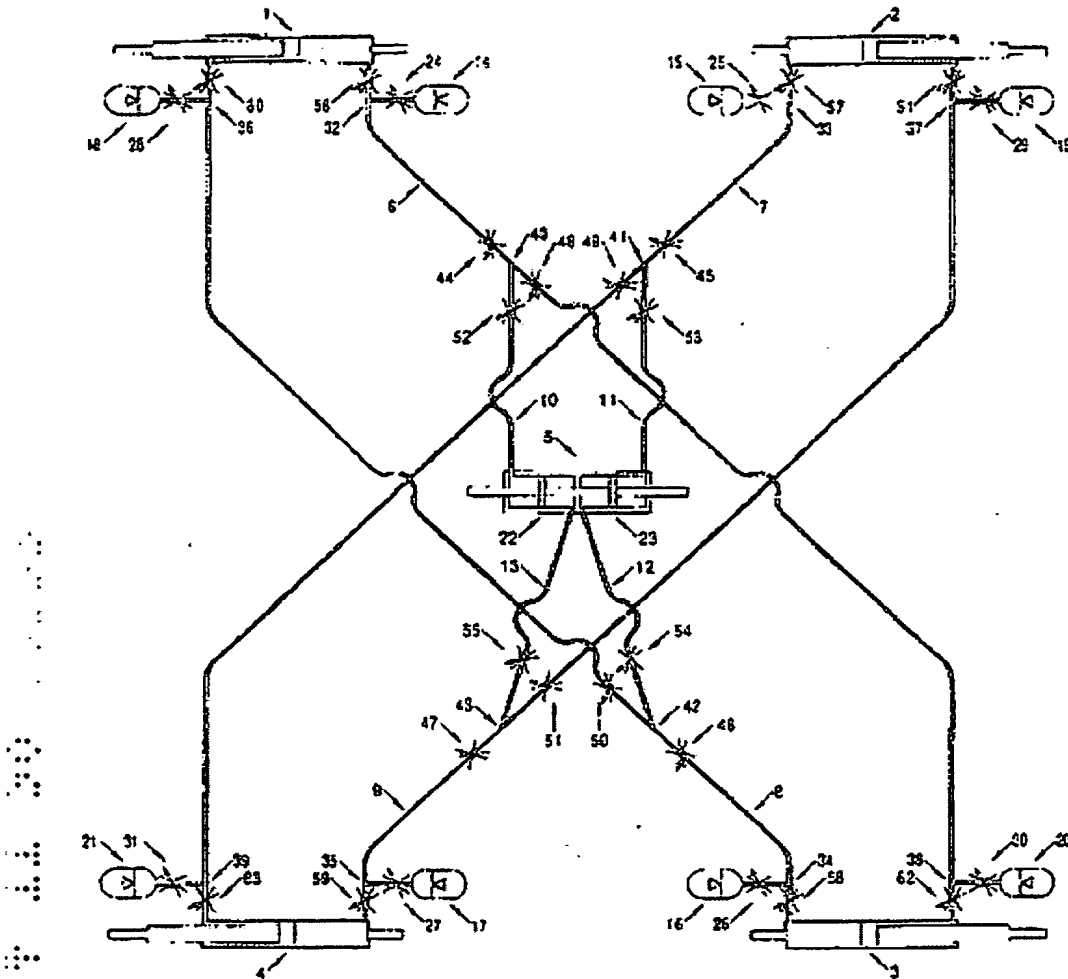
(57) Claim

1. A vehicle suspension system for a vehicle having a load support vehicle body and at least one pair of front ground engaging wheels and at least one pair of rear ground engaging wheels connected to the vehicle body to support same, and each wheel being displaceable relative to the vehicle body in a generally vertical direction, the suspension system including at least one double acting ram interconnected between each wheel and the vehicle body, each ram including first and second fluid filled chambers varying in volume in response to relative vertical movement between the respective wheel and vehicle body, the chambers of each ram being respectively connected to the respective chambers of another said ram by fluid communication conduits, valve means for controlling fluid flow within the suspension system and control means for controlling the valve means, wherein the valve means are controllable to limit and/or redirect fluid flow through the suspension system in response to dynamic events of the vehicle body to thereby change the effective interconnections and therefore the dynamic characteristics of the suspension system in a range of situations.

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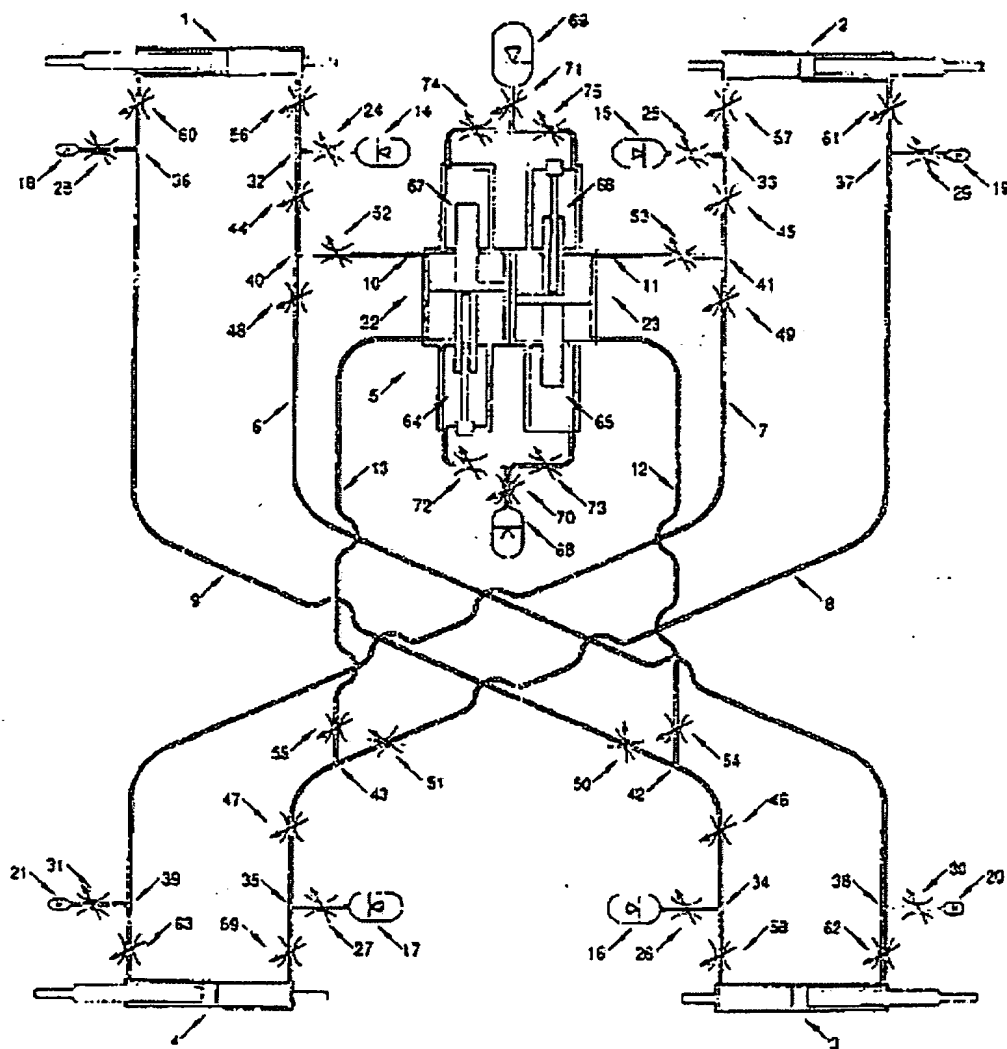
Figure 1.



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Figure 2.



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Figure 3.

